

Region 3 PFOA/PFOS briefing as of 5/23/2016

Issue: Roll out of the new Health Advisory for PFOS and PFOA and the implications for the Regional water systems and enforcement actions currently issued.

Background: Eighteen public water supply wells and about 80 private wells that exceeded the provisional health advisories (PHA) for PFOS and PFOA (0.2 and 0.4 ppb respectively) are offline and the homes on private wells have been supplied bottled water and/or point of entry carbon filters. The revised long term health advisory level (HAL) of 0.070 ppb **combined** for PFOS and PFOA issued on May 19th was exceeded in earlier sampling in about 18 additional public water supply wells and over 100 private wells throughout EPA Region 3. Some of the public water supply wells were taken offline on May 19th and May 20th. Vienna, WV could not shut down their wells and emergency trucked and bottled water is being provided. Under the PHA, Safe Drinking Water Act (SDWA) Emergency Orders were issued to the Navy and Air Force/Air National Guard (AF/ANG) to sample homes in proximity to their facilities and provide bottled water or point of entry treatment. The Navy and AF/ANG verbally agreed to continue do sample and provide alternate water supplies if sample results are above the new HAL. The new HAL will have a significant impact to each of our existing Orders and the responsible parties will be required to identify additional sites, not previously investigated. The following summarizes the effect by location.

National lab capacity is a serious issue. There are no point of use or point of entry treatment units that have been certified to remove PFCs in drinking water.

West Virginia

DuPont Washington Works- the Vienna Water system serving 12,500 persons has 7 of its 8 wells exceeding the new HAL. WV Department of Health and the local health department issued a do not drink advisory starting Thursday afternoon, May 19th. The Town of Vienna ordered bottled water. The state emergency management agency brought in 6-8 water tanker trucks by Thursday evening. DuPont agreed late on May 20th to begin providing bottled water starting May 20th. DuPont began investigating carbon units for emergency installation at Vienna about six weeks ago. They estimate it will take about one month to have temporary carbon filters in place on enough of Vienna's wells to allow them to keep operating and cease bottled and bulk water deployment. DuPont has tested point of entry filters and show that the filters decrease PFOA concentrations below detection (.005 ppb). They are currently testing point of use devices (water pitchers or faucet-end filters) for possible deployment in Vienna.

Region 3 is investigating some POU devices used in Minnesota around the 3M plant. The Washington Works area will need to be re-sampled and the boundaries of the impacted area previously sampled will be expanded. Regions 3 and 5 coordinating, along with OECA and OGC, to revise the existing DuPont administrative order to include additional investigations of public and private water supplies and provision of alternate water or treatment of impacted sources. Region 3 expects approximately 40 additional homes with private wells will be over the 0.070 ppb HAL. One well operated by Parkersburg water system will also require treatment, as will be covered by the revised Order.

Martinsburg, WV- two springs have been sporadically impacted by PFOS, as identified by the UCMR sampling. Sampling results in April confirmed that one spring near a county Airport (which has an Air National Guard contingent on the facility) was above the HAL. It was shut down on May 19th. The other

source was non-detect in April although previously it had a detection of PFOS. Martinsburg is keeping that source on-line and is able to, but barely, maintaining pressure in the entire system from their one remaining source.

Pennsylvania

Warminster, Horsham and Willow Grove Emergency Orders with the Navy and Air Force – The Willow Grove Naval Air Station (NAS) has two RPs: the Navy managing impacts from their portion of the BRAC site from the central and southern portion of NAS; and the Northern end of the NAS is managed by the Air National Guard. EPA issued an emergency order to the Air National Guard to address water supplies impacted in the areas nearby and down gradient from their portion of the site. This includes some public and private wells in Horsham Township and Warrington Townships and about 5 private wells in Warminster Township. The Navy is voluntarily managing response for their section of the former Air Station which also includes Horsham public water supply wells and private wells.

The former Warminster Naval Air Warfare Center, a separate facility four miles to the southeast, has impacted public and private wells in Warminster Township. Region 3 issued an emergency order to the Navy to address all contaminated water supplies in Warminster.

The Warminster, Horsham and Warrington public water systems had a total of eight wells off line due to the PHA. Another eight public supply were taken off-line on May 19th due to exceeding the new HAL. While this is a huge impact, we believe the remaining wells and interconnects with other nearby water systems will maintain water pressure and enable these wells to go offline without disruption. There is concern about potential plume migration if some of the current wells don't come back on with treatment soon. There will also be approximately 70 additional homes with private wells exceeding the new HAL, nearly doubling the number homes on bottled water. The Navy is providing bottled water to these homes through EPA Region 3.

Doylestown Township- One well exceed the new HAL for PFOA and was shut down on May 19th. PADEP has the lead for investigating and managing this site. The source had not been identified. PADEP had asked EPA to take the lead in investigation and location of any additional private wells in the area and the source of the PFOA, but EPA Region 3 declined.

Harrisburg Airport- Four wells were offline due to exceeding the PHA. No further impact is expected under the new HAL. No homes in proximity are impacted. Treatment at the airport is overseen by PADEP.

Delaware

New Castle Airport area- Treatment was recently installed on the New Castle County public water supply wells. There aren't any additional private wells impacted in this area, but the source has not yet been identified.

Dover AFB- the Dover Air base is now providing bottled water to one offsite well impacted by the new HAL.

Virginia

Fentress Naval Base- the Navy is providing bottled water to an additional 5 private homes (new total 7 homes), and are currently expanding their area of sampling at the lower level since PFOA and PFOS are both present and one well was previously missed that exceeded the PHA.